

HUMBOLDT RIVER BASIN, UPPER HUMBOLDT RIVER BASIN

10313400 MARYS RIVER BELOW ORANGE BRIDGE NEAR CHARLESTON, NV

LOCATION.--Lat 41°33'00", long 115°18'21" referenced to North American Datum of 1927, in SE 1/4 NE 1/4 sec. 09, T.42 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank, 5 mi below Orange Bridge, and approximately 14 mi southeast of Charleston.

DRAINAGE AREA.--72 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin. The rise to the maximum peak above base flow(200 cfs) resulted in multiple days of greater than 200 cfs discharge. Since this rise and the resultant peak are the result of a single snow melt event, only one peak above base flow discharge is warranted: May 06, with a discharge of 326 cfs at a gage height of 4.05 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 819 ft³/s, May 20, 1993, gage height, 4.57 ft; no flow some days, some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	March 23	2200	257	3.91		May 5	2130	*323	*4.05
	April 6	2030	319	3.96					

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.30	1.5	3.2	1.9	3.1	18	135	130	107	15	0.40	0.20
2	0.40	1.4	1.9	1.2	5.0	12	130	148	114	12	0.39	0.12
3	0.63	1.7	1.7	1.4	6.2	10	165	181	123	16	0.31	0.09
4	1.2	1.6	1.5	2.7	3.4	9.9	180	230	131	17	0.21	0.10
5	1.2	1.5	1.7	3.9	2.6	11	190	289	133	11	0.14	0.17
6	1.2	1.8	1.7	e4.0	2.5	8.9	239	275	130	8.6	0.10	0.24
7	1.1	2.0	2.5	e4.0	3.1	10	238	262	120	6.9	0.08	0.23
8	1.3	2.9	1.2	3.9	2.4	18	239	237	108	5.8	0.08	0.21
9	1.4	2.5	1.1	3.9	1.8	34	219	211	94	5.1	0.07	0.15
10	1.1	2.1	1.4	e4.0	2.5	42	191	201	83	6.1	0.05	0.11
11	1.5	2.3	3.3	e4.0	3.4	47	171	178	75	4.4	0.03	0.10
12	1.6	1.9	2.0	e4.0	3.2	50	165	152	68	3.5	0.04	0.08
13	1.7	2.6	1.6	e4.0	4.0	55	172	132	62	2.8	0.04	0.08
14	2.2	2.9	1.2	e4.0	5.4	63	168	114	61	2.4	0.04	0.09
15	2.3	2.8	1.6	e4.0	8.2	62	148	107	61	2.0	0.05	0.14
16	2.4	3.1	2.4	e4.0	7.9	66	132	100	60	2.5	0.06	0.20
17	2.2	3.0	2.7	e4.0	6.0	78	126	101	56	2.1	0.07	0.19
18	2.0	2.1	2.0	e4.0	10	88	115	103	50	2.8	0.63	0.24
19	2.0	2.6	2.3	e5.0	2.6	105	108	106	44	3.1	1.1	1.2
20	2.0	3.6	1.2	e5.0	4.5	119	101	106	40	3.2	0.61	3.2
21	2.0	2.2	0.67	e5.0	7.3	133	98	107	38	3.2	1.3	3.6
22	2.2	0.93	0.64	e5.0	10	139	95	107	36	2.9	0.86	2.9
23	2.0	1.3	1.1	e5.0	12	158	96	108	33	2.2	0.53	2.7
24	1.9	1.8	0.65	e5.0	11	183	97	98	32	1.5	0.41	2.4
25	2.1	1.4	0.71	e5.0	13	167	100	90	30	1.5	0.44	2.2
26	2.3	1.3	0.38	e5.0	11	154	109	85	29	1.6	0.37	2.1
27	2.7	1.2	0.93	e5.0	10	122	125	90	26	1.4	0.92	1.9
28	3.5	1.7	1.1	e5.0	13	103	148	119	24	0.86	1.00	1.6
29	2.8	1.9	1.1	e5.0	12	97	143	129	20	0.70	0.71	2.3
30	2.1	3.5	2.4	4.7	---	108	131	118	18	0.63	0.46	3.1
31	1.6	---	2.1	2.5	---	127	---	108	---	0.48	0.29	---
TOTAL	54.93	63.13	49.98	125.1	187.1	2,397.8	4,474	4,522	2,006	149.27	11.79	31.94
MEAN	1.77	2.10	1.61	4.04	6.45	77.3	149	146	66.9	4.82	0.38	1.06
MAX	3.5	3.6	3.3	5.0	13	183	239	289	133	17	1.3	3.6
MIN	0.30	0.93	0.38	1.2	1.8	8.9	95	85	18	0.48	0.03	0.08
AC-FT	109	125	99	248	371	4,760	8,870	8,970	3,980	296	23	63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	3.61	6.09	6.70	9.70	14.1	53.4	114	185	107	14.9	1.32	1.47
(WY)	(1999)	(1992)	(1996)	(1997)	(1996)	(1996)	(1996)	(1996)	(1993)	(1995)	(1995)	(1998)
MAX	7.65	11.0	12.7	28.6	51.3	139	229	345	233	52.1	5.66	4.62
(WY)	(1996)	(2004)	(2004)	(1994)	(2001)	(1994)	(1994)	(1994)	(1992)	(1992)	(2001)	(1994)
MIN	1.02	2.10	1.61	3.73	4.48	17.4	47.5	47.1	7.04	1.14	0.00	0.00
(WY)	(1996)	(2004)	(2004)	(1994)	(2001)	(1994)	(1994)	(1994)	(1992)	(1992)	(2001)	(1994)

HUMBOLDT RIVER BASIN, UPPER HUMBOLDT RIVER BASIN

10313400 MARYS RIVER BELOW ORANGE BRIDGE NEAR CHARLESTON, NV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1992 - 2004
ANNUAL TOTAL	10,408.67	14,073.04	
ANNUAL MEAN	28.5	38.5	43.2
HIGHEST ANNUAL MEAN			73.0
LOWEST ANNUAL MEAN			15.8
HIGHEST DAILY MEAN	341	May 29	579
LOWEST DAILY MEAN	0.00	Jul 31	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 9	0.00
MAXIMUM PEAK FLOW		323	819
MAXIMUM PEAK STAGE		4.05	4.57
ANNUAL RUNOFF (AC-FT)	20,650	27,910	31,320
10 PERCENT EXCEEDS	81	131	152
50 PERCENT EXCEEDS	3.8	3.4	7.5
90 PERCENT EXCEEDS	0.00	0.38	0.46

e Estimated